MAJOR SOURCE OPERATING PERMIT

Permittee: **Wabash Alloys, L.L.C.**

Facility Name: **Wabash Alloys, L.L.C.**

Facility No.: 410-0003

Location: Steele, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code §§22-22A-1 to 22-22A-15 (2006 Rplc. Vol. and 2007 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: *DRAFT*

Expiration Date: *DRAFT*

Alabama Department of Environmental Management

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1. Transfer	
This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in ADEM Admin. Code R. 335-3-16-.13(1)(a)5.	ADEM Admin. Code R. 335-3-16-.02(6)
2. Renewals	
An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.	ADEM Admin. Code R. 335-3-16-.12(2)
The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.	
3. Severability Clause	
The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.	ADEM Admin. Code R. 335-3-16-.05(e)
4. Compliance	
(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.	ADEM Admin. Code R. 335-3-16-.05(f)
(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.	ADEM Admin. Code R. 335-3-16-.05(g)

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5. Termination for Cause This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.	ADEM Admin. Code R. 335-3-16-.05(h)
6. Property Rights The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.	ADEM Admin. Code R. 335-3-16-.05(i)
7. Submission of Information The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.	ADEM Admin. Code R. 335-3-16-.05(j)
8. Economic Incentives, Marketable Permits, and Emissions Trading No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.	ADEM Admin. Code R. 335-3-16-.05(k)
9. Certification of Truth, Accuracy, and Completeness: Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.	ADEM Admin. Code R. 335-3-16-.07(a)
10. Inspection and Entry Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following: (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted,	ADEM Admin. Code R. 335-3-16-.07(b)

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or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements.	
11. <u>Compliance Provisions</u>	
(a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance.	ADEM Admin. Code R. 335-3-16-.07(c)
(b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit.	
12. <u>Compliance Certification</u>	
A compliance certification shall be submitted on or before **October 12th** of each calendar year and shall cover the period between August 13th of the previous year and August 12th of the current year.	ADEM Admin. Code R. 335-3-16-.07(e)
(a) The compliance certification shall include the following: (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with ADEM Admin. Code R. 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source;	
(b) The compliance certification shall be submitted to:	

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Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463 and to: Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303	
13. Reopening for Cause	
Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit: (a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire. (b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit. (c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.	ADEM Admin. Code R. 335-3-16-.13(5)
14. Additional ADEM Admin. Code R.s and Regulations	
This permit is issued on the basis of ADEM Admin. Code R.s and Regulations existing on the date of issuance. In the event additional ADEM Admin. Code R.s and Regulations are adopted, it shall be the permit holder's responsibility to comply with such ADEM Admin. Code R.s.	§22-28-16(d), Code of Alabama 1975, as amended
15. Equipment Maintenance or Breakdown	
(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit	ADEM Admin. Code R.

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issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following: (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.	335-3-1-.07(1), (2)
(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.	
16. <u>Operation of Capture and Control Devices</u>	
All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.	§22-28-16(d), Code of Alabama 1975, as amended
17. <u>Obnoxious Odors</u>	
This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the	ADEM Admin. Code R. 335-3-1-.08

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odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.	
18. <u>Fugitive Dust</u>	
(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.	ADEM Admin. Code R. 335-3-4-.02
(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:	
(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;	
(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;	
(3) By paving;	
(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;	
Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.	
19. <u>Additions and Revisions</u>	
Any modifications to this source shall comply with the modification procedures in ADEM Admin. Code R.s 335-3-16-.13 or 335-3-16-.14.	ADEM Admin. Code R. 335-3-16-.13 and .14
20. <u>Recordkeeping Requirements</u>	
(a) Records of required monitoring information of the source shall include the following:	ADEM Admin. Code R. 335-3-16-.05(c)2.

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(1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement.	
(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.	
21. <u>Reporting Requirements</u>	
(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with ADEM Admin. Code R. 335-3-16-.04(9).	ADEM Admin. Code R. 335-3-16-.05(c)3.
(b) Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
22. <u>Emission Testing Requirements</u>	
Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be	ADEM Admin. Code R. 335-3-1-.05(3) and ADEM Admin. Code R. 335-3-1-.04(1)

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amended or revised. The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control ADEM Admin. Code R.s and regulations. To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:	
(1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.	ADEM Admin. Code R. 335-3-1-.04
(2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning).	
(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.	
(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.	
A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.	ADEM Admin. Code R. 335-3-1-.04
All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.	
23. <u>Payment of Emission Fees</u>	
Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.	ADEM Admin. Code R. 335-1-7-.04
24. <u>Other Reporting and Testing Requirements</u>	
Submission of other reports regarding monitoring records,	ADEM Admin. Code R.

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fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control ADEM Admin. Code R.s and regulations. The Department may require emission testing at any time.	335-3-1-.04(1)
25. Title VI Requirements (Refrigerants)	
Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F. No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F. The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.	40 CFR 82
26. Chemical Accidental Prevention Provisions	
If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then: (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.	40 CFR Part 68
27. Display of Permit	
This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.	ADEM Admin. Code R. 335-3-14-.01(1)(d)

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28. Circumvention	
No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 ADEM Admin. Code R.s and regulations.	ADEM Admin. Code R. 335-3-1-.10
29. Visible Emissions	
Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.	ADEM Admin. Code R. 335-3-4-.01(1)
30. Fuel-Burning Equipment	
(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.	ADEM Admin. Code R. 335-3-4-.03
(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.	ADEM Admin. Code R. 335-3-5-.01
31. Process Industries – General	
Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.	ADEM Admin. Code R. 335-3-4-.04
32. Averaging Time for Emission Limits	
Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.	ADEM Admin. Code R. 335-3-1-.05

Summary Page for Two Reverberatory Furnaces (8.75 TPH each) with Two Baghouses

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	PM	0.40 lb of PM per ton	40 CFR 63 Subpart RRR [§63.1505(i)(1)]
EP-001 & EP-002	Reverberatory Furnace No. 1 (8.75 TPH) with Baghouse	PM	The lesser of the Anti-PSD limit 4.0 lbs/hr or Process Weight	Anti-PSD 335-3-14.04
EP-001 & EP-002	Reverberatory Furnace No. 2 (8.75 TPH) with Baghouse	PM	The lesser of the Anti-PSD limit 4.9 lbs/hr or Process Weight	Anti-PSD 335-3-14.04
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	Dioxin/Furans (D/F)	2.1×10^{-4} gr of D/F TEQ per ton	40 CFR 63 Subpart RRR [§63.1505(i)(3)]
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	HCl	0.40 lb of HCl per ton	40 CFR 63 Subpart RRR [§63.1505(i)(4)]
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	Opacity	(see general provisos)	SIP
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	SO_2	**	Anti-PSD 335-3-14-.04
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	VOC	N/A	N/A
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	CO	N/A	N/A
EP-001 & EP-002	Reverberatory Furnace No. 1 and No. 2 (8.75 TPH, each) with Two Baghouses	NO_X	N/A	N/A

**The sulfur content is limited in the fuel oil that is burned in the furnaces. The limit is for both furnaces combined.*

***The fuel oil burned in the furnaces shall not exceed 510,880 gallons during any consecutive twelve (12) month period. The sulfur content of the fuel oil burned in the furnaces shall not exceed 1.1 percent (1.1%).*

Provisos for Two Reverberatory Furnaces (8.75 TPH, each) with Two Baghouses

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Applicability	
1. These units are subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "*Major Source Operating Permits*".	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject only to Adem Admin Code R. 335-3-4-.04(1) "Control of Particulate Process Industries – General".	ADEM Admin. Code r. 335-3-4-.04(1)
3. This source is subject to ADEM Admin. Code R. 335-3-4-.01(1), "Control of Particulate Emissions – Visible Emissions".	ADEM Admin. Code r. 335-3-4-.01(1)
4. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart RRR "National Emissions Standards for Hazardous Air Pollutants for Secondary Aluminum Production" for existing Group 1 furnaces located at a major source.	40 CFR Part 63 Subpart RRR [§63.1500(b)(4)]
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart A "General Provisions" as listed in Appendix A Subpart RRR in 40 CFR Part 63.	40 CFR Part 63 Subpart RRR
6. These units have an enforceable limit in order to prevent them from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin. Code r. 335-3-14-.04
Emission Standards	
1. Particulate matter emissions for the reverberatory furnace No. 1 and reverberatory furnace No. 2 are limited 0.20 kg of PM per Mg (0.40 lb of PM per ton of feed/charge), each.	40 CFR Subpart RRR [§63.1505(i)(1)]
2. Particulate matter emissions from the reverberatory furnace No. 1 shall not exceed the lesser of the Anti-PSD limit of 4.0 lbs/hr or the allowable set by rule 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04
3. Particulate matter emissions from the reverberatory furnace No. 2 shall not exceed the lesser of the Anti-PSD limit of 4.9 lbs/hr or the allowable set by rule 335-3-4-.04.	ADEM Admin. Code r. 335-3-4-.04
4. The fuel oil burned in the furnace shall not exceed a total of 510,880 gallons during any consecutive twelve (12) month period. In addition, the sulfur content of the fuel oil burned in the furnaces shall not exceed 1.1 percent (1.1%) by weight.	ADEM Admin. Code r. 335-3-14-.04
5. Dioxins and Furans (D/F) for the reverberatory furnace No. 1 and No. 2 are limited to 15μg of D/F TEQ per Mg of feed/charge (2.1×10^{-4} gr of D/F TEQ per ton of feed/charge), each.	40 CFR 63 Subpart RRR [§63.1505(i)(3)]
6. HCl from the reverberatory furnace no.1 and no. 2 must not discharge or cause to be discharged to the atmosphere	40 CFR 63 Subpart RRR

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emission in excess 0.20 kg of HCl per Mg (0.40 lb of HCl per ton of feed), each.	[§63.1505(i)(4)]
7. The owner or operator of a sidewell group 1 furnace that conducts reactive fluxing (except for cover flux) in the hearth, or that conducts reactive fluxing in the sidewell at times when the level of molten metal falls below the top of the passage between the sidewell and the hearth, must comply with the emission limits of paragraph (i) (1) through (4) of 40 CFR Subpart RRR §63.1505 on the basis of the combined emissions from the sidewell and the hearth.	40 CFR 63 Subpart RRR [§63.1505(i)(7)]
8. The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace that identifies the applicable emission limits and means of compliance, including:	40 CFR Part 63 Subpart RRR [§ 63.1506 (b)(1-2)]
a. The type of affected sources or emission unit (*e.g.,* group 1 furnace)	
b. The applicable operational standard(s) and control method(s). This includes, but is not limited to, the type of charge to be used for the furnace, flux materials and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan.	
9. The owner or operator for each affected emission unit equipped with an add-on air pollution control device must:	40 CFR Part 63 Subpart RRR [§ 63.1506 (c)(1-3)]
a. Design and install a system for the capture and collection of emissions to meet engineering standard for minimum exhaust rates as published by the American Conference of Governmental Industrial Hygienists in chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice".	
b. Vent captured emissions through a closed system, and	
c. Operate each capture/collection system according to the procedures and requirements in the OM&M plan.	
10. The owner or operator of these units subject to an emission limit in kg/Mg (lb/ton) or µg/Mg (gr/ton) of feed/charge must:	40 CFR Part 63 Subpart RRR [§ 63.1506 (d)(1-3(i-ii))]
a. Install and operated a device or develop a procedure that measures and records or otherwise determine the weight of feed/charge or each operating cycle or time period used in the performance test; and	
b. Operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan.	
c. The owner or operator may chose to measure and record aluminum production weight from an affected source or emission unit rather than feed/charge weight to an affected source or emission unit, provided that the aluminum production weight is measured and recorded for	

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all emission units with a SAPU and all calculations to demonstrate compliance with the emission limits for SAPUs are based on aluminum production weight rather than feed/charge weight.	
11. The owner or operator of these group 1 furnaces with emissions controlled by a lime-injected fabric filter must:	40 CFR Part 63 Subpart RRR
a. If a bagleak detection system is used to meet the monitoring requirement in §63.1510, the owner or operator must initiate corrective action within 1 hour of bag leak detection system alarm.	[§ 63.1506 (m)(1)(i-iii)(3-5)(6)(i-ii)]
b. Complete the corrective action procedures in accordance with the OM&M plan.	
c. Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 percent of the operating time during a 6-month block reporting period. In calculating this operating time fraction, if inspection of the fabric filter demonastrates that no corrective action is required, no alarm time is counted. If corrective action is required, each alarm shall be counted as a minimum of 1 hour. If the owner or operator takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken by the owner operator to initiate corrective action.	
d. Maintain the 3-hour block average inlet temperature for each fabric filter at or below the average temperature established during the performance test, plus 14°C (plus 25 °F).	
e. For a continuous lime injection system, maintain free-flowing lime in the hopper to the feed device at all times and maintain the lime feeder setting at the same level established during the performance test.	
f. Maintain the total reactive chlorine flux injection rate for each operating cycle or time period used in the performance test at or below the average rate established during the performance test.	
g. Operate each sidewell furnace such that the level of molten metal remains above the top passage between the sidewell and hearth during reactive flux injection, unless emissions from both the sidewell and the hearth are included in demonstrating compliance with all applicable emission limits.	
h. Reactive flux is added only in the sidewell unless emissions from both the sidewell and the hearth are	

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included in demonstrating compliance with all applicable emission limits.	
Compliance and Performance Test Methods and Procedures	
1. If testing is required, particulate matter(PM) emissions shall be determined in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin.Code r. 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department shall be used in the determination of the opacity of the stack emissions.	ADEM Admin.Code r. 335-3-1-.05
3. If testing is required, sulfur dioxide emissions shall be determined in accordance with Method 6c of 40 CFR 60, Appendix A.	ADEM Admin.Code r. 335-3-1-.05
4. If testing is required, Dioxin/Furan emissions shall be determined in accordance with Method 23 of 40 CFR 60, Appendix A.	ADEM Admin.Code r. 335-3-1-.05
5. If testing is required, HCl emissions shall be determined in accordance with Method 26A of 40 CFR 60, Appendix A.	ADEM Admin.Code r. 335-3-1-.05
6. The sulfur content of the fuel oil delivered to the furnaces shall be measured in accordance with ASTM D129-64 or an alternative method approved by the Department.	ADEM Admin.Code r. 335-3-1-.05
7. To comply with the PM, HCl, and Dioxin/Furans standards of Subpart RRR, the owner or operator must meet all of the following: a. The owner or operator must prepare a site-specific test plan which satisfies all the requirements, and must obtain approval of the plan pursuant to the procedures, set for in *§63.7(c).* b. Do a performance test as specified in *§63.1512* of this subpart and show compliance with PM, HCl, and D/F limits at the outlet of the control device. c. The owner or operator of these emission units must establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by *§63.1510* that ensures compliance with the applicable emission limit or standard.	40 CFR Part 63 Subpart RRR [§ 63.1511]
8. The performance test conducted to demonstrate compliance with the emissions limits in §63.1505 shall conform to the test methods and procedures specified in §63.1511 and §63.1512.	40 CFR Part 63 Subpart RRR [§ 63.1511] [§ 63.1512]
9. Using the results of the performance tests, the owner or operator must use the following equation to determine compliance with the PM, HCl, and D/F limit:	40 CFR Part 63 Subpart RRR [§ 63.1512(o)(1-5)] [§ 63.1513(b)]

$$E = \frac{C \times Q \times K_1}{P}$$

where:

E = Emission rate of PM or HCl, kg/Mg (lb/ton) of melt.

C = Concentration of PM or HCl, g/dscm (gr/dscf).

Q_s = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr).

K_1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr).

P = Production rate, Mg/hr (ton/hr).

To determine compliance with an emission limit for D/F:

$$E = \frac{C \times Q \times K_1}{P}$$

where:

E = Emission rate of D/F, µg/Mg (gr/ton) of feed.

C = Concentration of D/F, µg/dscm (gr/dscf).

Q_s = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr); and

P = Production rate, Mg/hr (ton/hr).

a. The owner or operator must use these procedures to establish an operating parameter value or range for the total reactive chlorine flux injection rate.

   i. Continuoulsy measure and record the weight of gaseous or liquid reactive flux injected for each 15 minute period during the HCl and D/F tests, determine and record the 15-minute block average weights, and calculate and record the total weight of the gaseous or liquid reactive flux for the 3 test runs;

   ii. Record the identity, composition, and total weight of each addition of solid reactive flux for the 3 test runs;

   iii. Determine the total reactive chlorine flux injection rate by adding the recorded measurement of the total weight of chlorine in the gaseous or liquid reactive flux injected and the total weight of chlorine in the solid reactive flux using Equation 5:

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$W_t = F_1W_1 + F_2W_2 \qquad (Eq.\ 5)$ where, W_t= Total chlorine usage, by weight; F_1= Fraction of gaseous or liquid flux that is chlorine; W_1= Weight of reactive flux gas injected; F_2= Fraction of solid reactive chloride flux that is chlorine (*e.g.,* F = 0.75 for magnesium chloride; and W_2= Weight of solid reactive flux; iv. Divide the weight of total chlorine usage (Wt) for the three (3) test runs by the recorded measurement of the total weight of feed for the 3 test runs; and v. If a solid reactive flux other than magnesium chloride is used, the owner or operator must derive the appropriate proportion factor subject to approval by the Department.	
Emission Monitoring	
1. The owner or operator must prepare and implement for these units, a written operation, maintenance, and monitoring (OM&M) plan. The owner or operator of any new affected source must submit the OM&M plan to the responsible permitting authority within 90 days after a successful initial performance test under §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority, unless and until the plan is revised in accordance with the following procedures. If the permitting authority determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M plan are necessary, such revisions will not become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the permitting authority. Each plan must contain the following information:	40 CFR Part 63 Subpart RRR [§63.1510 (b)(1-7)]

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a. Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device. b. A monitoring schedule for each affected source and emission unit. c. Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in 40 CFR §63.1505. d. Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including: i. Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and ii. Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems (if applicable) as required by the general provisions in subpart A of this part. e. Procedures for monitoring process and control device parameters, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used. f. Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in §63.1510 (b)(1), including: i. Procedures to determine and record the cause of any deviation or excursion, and the time the deviation or excursion began and ended; and ii. Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed. g. A maintenance schedule for these units that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.	
2. The owner or operator must inspect the labels of the group 1 furnaces at least once per calendar month to confirm that posted labels as required by the operational standard in §63.1506(b) are intact and legible.	40 CFR Part 63 Subpart RRR [§63.1510 (c)]

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3. The owner or operator must install, operate, and maintain a capture/collection system for each emission unit equipped with an add-on air pollution control device; and inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in §63.1506(c) and record the results of each inspection.	40 CFR Part 63 Subpart RRR [§63.1510 (d)(1-2)]
4. The owner or operator of these units must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the performance test. As an alternative to a measurement device, the owner or operator may use a procedure acceptable to the applicable permitting authority to determine the total weight of feed/charge or aluminum production to the affected source or emission unit. a. The accuracy of the weight measurement device or procedure must be ±1 percent of the weight being measured. The owner or operator may apply to the permitting agency for approval to use a device of alternative accuracy if the required accuracy cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standard. b. The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.	40 CFR Part 63 Subpart RRR [§63.1510 (e)(1-2)]
5. The owner or operator of these units using a fabric filter or lime injected fabric to comply with the requirements of this subpart must install, calibrate, maintain, and continuously operate a bagleak detection system as required in paragraph (f)(1) of 40 CFR Subpart RRR or a continuous opacity monitoring system as required in paragraph (f)(2) of 40 CFR Subpart RRR. These requirements apply to the owner or operator of these units using a bagleak detection system. a. The owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter. b. Each triboelectric bag leak detection system must be installed, calibrated, operated and maintained according to the "Fabric Filter Bag Leak Detection Guidance". c. The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.	40 CFR Part 63 Subpart RRR [§63.1510 (f)(1)(i-x))]

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d. The bag leak detection system sensor must provide output of relative or absolute PM loadings. e. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor. f. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. g. For positive pressure fabric filter systems, a bag leak detection system must be in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. h. Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors. i. The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time. j. Following initial adjustment of the system, the owner or operator must no adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time except as detailed in the OM&M plan. In no case may the sensitivity be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless such adjustment follows a complete fabric filter inspection with demonstrates that the fabric filter is in good operating condition.	
6. The owner or operator of these units using a fabric filter or lime injected fabric to comply with the requirements of this subpart must install, calibrate, maintain, and operate a device to continuously monitor and record the temperature of the fabric filter inlet gases consistent with the requirements for continuous monitoring systems on subpart A of 40 CFR Subpart RRR. a. The temperature monitoring device must meet each of these performance and equipment specifications: i. The monitoring system must record the temperature in 15-minut block averages and calculate and record the average temperature for each 3-hour block period. ii. The recorder response range must include zero and 1.5 times the average temperature established according to the requirement in §63.1512 (n).	40 CFR Part 63 Subpart RRR [§63.1510 (h)(1-2)]

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iii. The reference method must be a National Institute of Standard and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Department.	
7. If the facility intermittently adds lime to a lime coated fabric filter. The facility must obtain approval from the Department for a lime addition monitoring procedure. The Department will not approve a monitoring procedure unless data and information are submiited establishing that the procedure is adequate to ensure that relevant emission standards will be met on a continuous basis.	40 CFR Part 63 Subpart RRR [§63.1510 (i)(3)]
8. The owner or operator must install, calibrate, operate, and maintain a device to continuously measure and record the weight of gaseous or liquid reactive flux injected to each affected source or emission unit:	40 CFR Part 63 Subpart RRR [§63.1510 (j)(1-5)]
a. The monitoring system must record the weight for each 15-minute block period, during which reactive fluxing occurs, over the same operating cycle or time period used in the performance test.	
b. The accuracy of the weight measurement device must be ±1 percent of the weight of the reactive component of the flux being measured. The owner or operator may apply to the Department for permission to use a weight measurement device of alternative accuracy in cases where the reactive flux flow rates are so low as to make the use of a weight measurement device of ±1 percent impracticable. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standards.	
c. The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.	
d. Calculate and record the gaseous or liquid reactive flux injection rate (kg/Mg or lb/ton) for each operating cycle or time period used in the performance test using the procedure in §63.1512 (o).	
e. Record, for each 15-minute block period during each operating cycle or time period used in the performance test during which reactive fluxing occurs, the time, weight, and type of flux for each addition of:	
i. Gaseous or liquid reactive flux other than chlorine; and	

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ii. Solid reactive flux	
f. Calculate and record the total reactive flux injection rate for each operating cycle or time period used in the performance test using the procedure in 40 CFR §63.1512(o).	
g. The owner or operator of these units performing reactive fluxing may apply to the Department for approval of an alternative method for monitoring and recording the total reactive flux addition rate based on monitoring the weight or quantity of reactive flux per ton of feed/charge for each operating cycle or time period used in the performance test. An alternative monitoring method will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standards on a continuous basis.	
9. The owner or operator of a continuous lime injection system must verify that lime is always free-flowing by either:	40 CFR Part 63 Subpart RRR [§63.1510 (i)]
a. Inspecting each feed hopper or silo at least once each 8-hour period and recording the results of each inspection. If lime is found not to be free-flowing during any of the 8 hour periods, the owner or operator must increase the frequency of inspections to at least once every 4-hour period for the next 3 days. The owner or operator may return to inspections at least once every 8 hour period if corrective action results in no further blockages of lime during the 3 day period; or	
b. Subject to approval of the permiting agency, installing, operating and maintaining a load cell, carrier gas/lime flow indicator, carrier gas pressure drop measurement system or other system to confirm that lime is free-flowing. If lime is found not to be free-flowing, the owner or operator must promptly initiate and complete corrective action, or	
c. Subject to the approval of the permitting agency, installing, operating and maintaining a device to monitor the concentration of HCl at the outlet of the fabric filter. If an increase in the concentration of HCl indicated that the lime is not free-flowing, the owner or operator must promptly initiate and complete corrective action.	
10. On days when the associated furnaces are operating, the facility shall perform a daily inspection of the baghouses to verify proper operation. The following activities shall be performed action.	ADEM Admin. Code r. 335-3-16-.05
a. Once per day check the furnace hoods for fugitive	

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emissions. b. Once per day check for presence of fugitive emissions from the furnace building.	
Recordkeeping and Reporting Requirements	
1. The facility shall record the amount of fuel oil burned in gallons and the sulfur content of the fuel oil. The facility must keep records showing monthly and 12 month total of all fuel oil burned. Each record shall be maintained for a period of at least 5 years following the use of this fuel.	ADEM Admin.Code r. 335-3-1-.05
2. The permittee shall keep records of all inspections performed on the furnace hoods, furnace hoods, furnace building, ductwork, and the furnace baghouse. Each record shall be maintained for a period of at least 5 years.	ADEM Admin.Code r. 335-3-1-.05
3. The owner or operator must submit initial notifications to the Department as described below: a. After the effective date (March 23, 2000), the owner or operator who intends to construct a new affected source or reconstruct an affected source subject to 40 CFR 63, Subpart RRR, or reconstruct a source such that is becomes an affected source subject to 40 CFR 63, Subpart RRR, must provide notification or the intended construction or reconstructions. The notification must include all the information required for an application for approval of construction or reconstruction as required by 40 CFR §63.5(d). i. The application must be submitted as soon as practicable before the construction or reconstruction is planned to commence (but no sooner than the effective date) if the construction or reconstruction commences after the effective date of 40 CFR 63, Subpart RRR; or ii. The application must be submitted as soon as practicable before startup but no later than 90 days after the effective date of this subpart if the construction or reconstruction had commenced and initial startup had not occurred before the effective date. b. As required by 40 CFR §63.9(d), the owner or operator must provide notification of any special compliance obligations for a new source. c. As required by 40 CFR §63.9(e) and (f), the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission	40 CFR Part 63 Subpart RRR [§63.1515(a)]

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observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.	
4. Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by §63.1501(a). Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include: a. All information required in §63.9(h). The owner or operator must provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests). b. The approved site-specific test plan and performance evaluation test results for each continuous monitoring system. c. Unit labeling as described in 40 CFR §63.1506(b), including process type or furnace classification and operating requirements. d. The compliant operating parameter value or range established for the emission unit with supporting documentation and a description of the procedure used to establish the value; (*e.g.* afterburner operating temperature) including the operating cycle or time period used in the performance test. e. Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in 40 CFR §63.1506(c).	40 CFR Part 63 Subpart RRR [§63.1515(b)(1-6,9,10)]

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f. Analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in §63.1510(f).	
g. The OM&M plan.	
h. Startup, shutdown, and malfunction plan, with revisions.	
5. The owner or operator must develop a written plan as described in 40 CFR §63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The owner or operator shall also keep records of each event as required by 40 CFR §63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR §63.6(e)(3). In addition to the information required in 40 CFR §63.6(e)(3), the plan must include:	40 CFR Part 63 Subpart RRR [§63.1516(a)(1-2)]
a. Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and	
b. Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.	
6. The owner or operator must submit semiannual reports according to the requirements in 40 CFR §63.10(e)(3). Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in 40 CFR §63.10(e)(3)(v). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period.	40 CFR Part 63 Subpart RRR [§63.1516(b)(1)(2)(iii)(3)]
a. A report must be submitted if any of these conditions occur during a 6-month reporting period:	
i. The corrective action specified in the OM&M plan for a bag leak detection system alarm was not initiated within 1 hour.	
ii. An excursion of a compliant process or operating parameter value or range.	
iii. An action taken during a startup, shutdown, or malfunction was not consistent with the procedures	

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in the plan as described in 40 CFR §63.6(e)(3). iv. An affected source was not operated according to the requirements of this subpart. b. Each report must include the following certifications: i. For each sidewell group 1 furnace with add-on air pollution control devices: "Each furnace was operated such that the molten metal remained above the top of the passage between the sidewell and hearth during reactive fluxing, and reactive flux, except for cover flux, was added only to the sidewell or to a furnace hearth equipped with an add-on air pollution control device for PM, HCl, and D/F emissions during this reporting period. c. The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested. d. For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions: i. Any period of excess emissions, as defined in §63.1516 (b)(1) of Subpart RRR, that occurred during the year were reported as required by Subpart RRR and ii. All monitoring, recordkeeping, and reporting requirements were met during the year.	
7. As required by 40 CFR §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and 40 CFR 63, Subpart RRR. a. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site. b. The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and c. The owner or operator may report required information on	40 CFR Part 63 Subpart RRR [§63.1517(a)(1-3)]

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paper or on a labeled computer disk using commonly available and EPA-compatible computer software.	
8. In addition to the general records required by 40 CFR §63.10(b), the owner or operator these units must maintain records of:	40 CFR Part 63 Subpart RRR [§63.1517(b)(1)(i),(3-7),(10),(13-17)]
a. If a bag leak detection system is used, the number of total operating hours for the affected source or emission unit during each 6-month reporting period, record of each alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action (s) taken.	
b. For each group 1 furnace, subject to D/F and HCl emission standards with emissions controlled by a lime-injected fabric filter, records of 15-minut block average inlet temperatures for each lime injected fabric filter, including any period when the 3-hour block average temperature exceeds the compliant operating parameter value +14 °C (+25 °F), with a brief explanation of the cause of the excursion and the corrective action taken.	
c. For each affected source and emission unit with emissions controlled by a lime-injected fabric filter: records of inspections at least once every 8-hour period verifying that lime is present in the feeder hopper or silo and flowing, including any inspection where blockage is found, with a brief explanation of the cause of the blockage and the corrective action taken, and records of inspections at least once very 4-hour periold of the subsequent 3 days. If flow monitors, pressure drop sensors or load cells are used to verify that lime is present in the hopper and flowing, records of all monitor or sensor output including any event where blockage was found, with a brief explanation of the cause of the blockage and the corrective action taken; if the lime feeder setting is monitored, records of daily inspections of feeder setting, including records of any derviation of the the feeder setting from the setting used in the performance test, with a brief explanation of the cause of the deviation and the corrective action taken.	
d. For each group 1 furnace or in-line fluxer, records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations, including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.	
e. For each continuous monitoring system, records required by §63.10(c).	

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f. For each affected source and emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the performance test. g. Operating logs for each group 1 sidewell furnace with add-on air pollution control devices documenting conformance with operating standards for maintaining the level of molten metal above the top of the passage between the sidewell and hearth during reactive flux injection and for adding reactive flux only to the sidewell or a furnace hearth equipped with a control device for PM, HCl, and D/F emissions. h. Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements. i. Records of annual inspections of emission capture/collection and closed vent systems. j. Records for any approved alternative monitoring or test procedure. k. Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan including startup, shutdown, and malfunction plan, OM & M plan, and Site-specific secondary aluminum processing unit emission plan. l. For each secondary aluminum processing unit, records of total charge weight, or if the owner or operator chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.	

Summary Page for Aluminum Scrap Shredder with Cyclone

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
EP004	Aluminum Scrap Shredder with Cyclone controlled by a Baghouse	PM	The lesser of 10.38 lbs/hr or Process Weight (see general provisos for process weight)	Anti-PSD 335-3-14-.04 ADEM Admin. Code R. 335-3-4-.04
EP004	Aluminum Scrap Shredder with Cyclone controlled by a Baghouse	PM	0.010 grain (gr) of PM per dry standard cubic foot (dscf)	40 CFR 63 Subpart RRR [§63.1505(b)(1)]
EP002	Aluminum Scrap Shredder with Cyclone controlled by a Baghouse	Opacity	(see general provisos)	SIP

Provisos for Aluminum Scrap Shredder with Cyclone controlled by a Baghouse

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Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to ADEM Admin. Code R. 335-3-4-.01(1), "Control of Particulate Emissions for Process Industries– General"	ADEM Admin. Code r. 335-3-4-.04(1)
3. This source is subject to ADEM Admin. Code R. 335-3-4-.01(1), "Control of Particulate Emissions – Visible Emissions"	ADEM Admin. Code r. 335-3-4-.01(1)
4. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart RRR "National Emissions Standards for Hazardous Air Pollutants for Secondary Aluminum Production" for an existing aluminum scrap shredder located at a major source.	40 CFR Part 63 Subpart RRR [§ 63.1500(b)(1)]
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart A "General Provisions" as listed in Appendix A Subpart RRR in 40 CFR Part 63.	40 CFR Part 63 Subpart RRR
6. These units have an enforceable limit in order to prevent them from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin. Code r. 335-3-14-.04
Emission Standards	
1. Particulate matter emissions from the aluminum scrap must not discharge or cause to be discharged to the atmosphere emissions in excess of 0.023 grams (g) of PM per dry standard cubic feet (dscm)(0.010 grain (gr) of PM per dry standard cubic foot (dscf).	40 CFR Subpart RRR [§63.1505(b)(1)]
2. Particulate matter emissions from aluminum scrap shredder shall not exceed the lesser of the Anti-PSD limit of 10.38 lbs/hr or the allowable set by rule 335-3-4-.04.	ADEM Admin. Code r. 335-3-14-.04
3. The owner or operator of this unit, equipped with an add-on control device must: a. Design and install a system for the capture and collection of emissions to meet engineering standard for minimum exhaust rates as published by the American Conference of Governmental Industrial Hygienists in chapters 3 and 5 of "Industrial Ventilation: A Manual of Recommended Practice".	40 CFR Part 63 Subpart RRR [§ 63.1506(c)(1-3)]

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b. Vent captured emissions through a closed system, and c. Operate each capture/collection system according to the procedures and requirements in the OM&M plan.	
4. The owner or operator of this unit, equipped with emissions controlled by a fabric filter must operate a bag leak detection system must: a. Initiate corrective action within 1-hour of a bag leak detection system alarm and complete the corrective procedures in accordance with the OM & M plan. b. Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 percent or the operating time during a 6-month block reporting period. In calculating this operating time fraction, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted. If corrective action is required each alarm shall be counted as a minimum of 1 hour. If the owner or operator takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken by the owner or operator to initiate corrective action.	40 CFR Part 63 Subpart RRR [§ 63.1506(e)(1)]
Compliance and Performance Test Methods and Procedures	
1. If testing is required, particulate matter(PM) emissions shall be determined in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin.Code r. 335-3-1-.05
2. Method 9 of 40 CFR 60, Appendix A, or an equivalent method approved by the Department shall be used in the determination of the opacity of the stack emissions	ADEM Admin.Code r. 335-3-1-.05
3. To comply with the PM of Subpart RRR, the owner or operator must meet all of the following: a. The owner or operator must prepare a site-specific test plan which satisfies all the requirements, and must obtain approval of the plan pursuant to the procedures, set for in *§63.7(c).* b. Do a performance test as specified in *§63.1512* of 40 CFR Subpart RRR and show compliance with PM limits at the outlet of the control device. c. The owner or operator of this unit must conduct performance tests to measure PM emissions at the outlet of the control system.	40 CFR Part 63 Subpart RRR [§ 63.1511]

Federally Enforceable Provisos	Regulations
4. The performance test conducted to demonstrate compliance with the emissions limits in §63.1505 shall conform to the test methods and procedures specified in §63.1511 and §63.1512.	40 CFR Part 63 Subpart RRR [§ 63.1511] & [§ 63.1512]
5. Using the results of the performance tests, the owner or operator must use the following equation to determine compliance with the PM limit: $$E = \frac{C \times Q \times K_1}{P}$$ where: E = Emission rate of PM, kg/Mg (lb/ton) of melt. C = Concentration of PM, g/dscm (gr/dscf). Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr). K_1 = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr). P = Production rate, Mg/hr (ton/hr).	
Emission Monitoring	
1. The owner or operator must prepare and implement for these units, a written operation, maintenance, and monitoring (OM&M) plan. The owner or operator of any new affected source must submit the OM&M plan to the responsible permitting authority within 90 days after a successful initial performance test under §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority, unless and until the plan is revised in accordance with the following procedures. If the permitting authority determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions OM&M plan are necessary, such revisions will not become effective until the owner or operator submits a description	40 CFR Part 63 Subpart RRR [§63.1510 (b)(1-7)]

Federally Enforceable Provisos	Regulations
of the changes and a revised plan incorporating them to the permitting authority. Each plan must contain the following information: a. Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device. b. A monitoring schedule for each affected source and emission unit. c. Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in 40 CFR §63.1505. d. Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including: i. Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and ii. Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems (if applicable) as required by the general provisions in subpart A of this part. e. Procedures for monitoring process and control device parameters, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used. f. Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in §63.1510 (b)(1), including: i. Procedures to determine and record the cause of any deviation or excursion, and the time the deviation or excursion began and ended; and ii. Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.	

Federally Enforceable Provisos	Regulations
g. A maintenance schedule for these units that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.	
2. The owner or operator must install, operate, and maintain a capture/collection system for each emission unit equipped with an add-on air pollution control device; and	40 CFR Subpart RRR [§63.1510 (d)(1-2)]
a. Inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in §63.1506(c) and record the results of each inspection.	
3. The owner or operator of these units using a fabric filter or lime injected fabric to comply with the requirements of this subpart must install, calibrate, maintain, and continuously operate a bagleak detection system as required in paragraph (f)(1) of 40 CFR Subpart RRR or a continuous opacity monitoring system as required in paragraph (f)(2) of 40 CFR Subpart RRR. These requirements apply to the owner or operator of these units using a bagleak detection system.	40 CFR Part 63 Subpart RRR [§63.1510 (f)(i-x)]
a. The owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter.	
b. Each triboelectric bag leak detection system must be installed, calibrated, operated and maintained according to the “Fabric Filter Bag Leak Detection Guidance”.	
c. The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.	
d. The bag leak detection system sensor must provide output of relative or absolute PM loadings.	
e. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor.	
f. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.	
g. The owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter.	
h. The owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter.	

Federally Enforceable Provisos	Regulations
i. The owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter. j. Each triboelectric bag leak detection system must be installed, calibrated, operated and maintained according to the "Fabric Filter Bag Leak Detection Guidance". k. The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less. l. The bag leak detection system sensor must provide output of relative or absolute PM loadings. m. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor. n. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. o. For positive pressure fabric filter systems, a bag leak detection system must be in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. p. For positive pressure fabric filter systems, a bag leak detection system must be in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. q. For positive pressure fabric filter systems, a bag leak detection system must be in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. r. Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors. s. The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.	

Federally Enforceable Provisos	Regulations
t. For positive pressure fabric filter systems, a bag leak detection system must be in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter. u. Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors. v. The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time. w. Following initial adjustment of the system, the owner or operator must no adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time except as detailed in the OM&M plan. In no case may the sensitivity be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless such adjustment follows a complete fabric filter inspection with demonstrates that the fabric filter is in good operating condition.	
Recordkeeping and Reporting Requirements	
1. The facility shall maintain a record of the pressure drop across the baghouse once per day. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.	ADEM Admin Code r. 335-3-16-.05
2. The owner or operator must submit initial notifications to the Department as described below: a. After the effective date (March 23, 2000), the owner or operator who intends to construct a new affected source or reconstruct an affected source subject to 40 CFR 63, Subpart RRR, or reconstruct a source such that is becomes an affected source subject to 40 CFR 63, Subpart RRR, must provide notification or the intended construction or reconstructions. The notification must include all the information required for an application for approval of construction or reconstruction as required by 40 CFR §63.5(d). i. The application must be submitted as soon as practicable before the construction or reconstruction is planned to commence (but no sooner than the effective date) if the construction or reconstruction commences after the effective date of 40 CFR 63, Subpart RRR; or	

Federally Enforceable Provisos	Regulations
3. The owner or operator must submit initial notifications to the Department as described below: a. After the effective date (March 23, 2000), the owner or operator who intends to construct a new affected source or reconstruct an affected source subject to 40 CFR 63, Subpart RRR, or reconstruct a source such that is becomes an affected source subject to 40 CFR 63, Subpart RRR, must provide notification or the intended construction or reconstructions. The notification must include all the information required for an application for approval of construction or reconstruction as required by 40 CFR §63.5(d). i. The application must be submitted as soon as practicable before the construction or reconstruction is planned to commence (but no sooner than the effective date) if the construction or reconstruction commences after the effective date of 40 CFR 63, Subpart RRR; or ii. The application must be submitted as soon as practicable before startup but no later than 90 days after the effective date of this subpart if the construction or reconstruction had commenced and initial startup had not occurred before the effective date. b. As required by 40 CFR §63.9(d), the owner or operator must provide notification of any special compliance obligations for a new source. c. As required by 40 CFR §63.9(e) and (f), the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.	40 CFR Part 63 Subpart RRR [§63.1515(a)]

Federally Enforceable Provisos	Regulations
4. Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by §63.1501(a). Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include: a. All information required in §63.9(h). The owner or operator must provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests). b. The approved site-specific test plan and performance evaluation test c. Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in 40 CFR §63.1506(c).results for each continuous monitoring system. d. Analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in §63.1510(f). e. The OM&M plan. f. Startup, shutdown, and malfunction plan, with revisions.	40 CFR Part 63 Subpart RRR [§63.1515(b)(1,2,4,5,9, 10)]

Federally Enforceable Provisos	Regulations
4. The owner or operator must comply with the applicable reporting requirements found in §63.1516 (a), (b), and (c). §63.1516 (a) Startup, shutdown, and malfunction plan/reports. The owner or operator must develop a written plan as described in 40 CFR §63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The owner or operator shall also keep records of each event as required by 40 CFR §63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR §63.6(e)(3). In addition to the information required in 40 CFR §63.6(e)(3), the plan must include: a. Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and b. Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording.	40 CFR Part 63 Subpart RRR [§63.1516(a)(1)&(2)]
5. The owner or operator must submit semiannual reports according to the requirements in 40 CFR §63.10(e)(3). Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in 40 CFR §63.10(e)(3)(v). When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period. a. A report must be submitted if any of these conditions occur during a 6-month reporting period: i. The corrective action specified in the OM&M plan for a bag leak detection system alarm was not initiated within 1 hour. ii. An excursion of a compliant process or operating parameter value or range. iii. The corrective action specified in the OM&M plan for visible emissions from the aluminum scrap shredder was not initiated with 1 hour. iv. The corrective action specified in the OM&M plan for visible emissions from the aluminum scrap shredder was not initiated with 1 hour.	40 CFR Part 63 Subpart RRR [§63.1516(b)(1)&(3)]

Federally Enforceable Provisos	Regulations
v. An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in 40 CFR §63.6(e)(3). vi. An affected source was not operated according to the requirements of this subpart. b. The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested. c. *Annual compliance certifications.* For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions: i Any period of excess emissions, as defined in §63.1516 (b)(1) of Subpart RRR, that occurred during the year were reported as required by Subpart RRR and ii All monitoring, recordkeeping, and reporting requirements were met during the year.	
6. As required by 40 CFR §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and 40 CFR 63, Subpart RRR. a. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site. b. The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and c. The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.	40 CFR Part 63 Subpart RRR [§63.1517(a)(1-3)]

Federally Enforceable Provisos	Regulations
7. In addition to the general records required by 40 CFR §63.10(b), the owner or operator of these units must maintain records of: a. If a bag leak detection system is used, the number of total operating hours for the affected source or emission unit during each 6-month reporting period, record of each alarm, the time of the alarm, the time corrective action was initiated and completed and a brief description of the cause of the alarm and the corrective action (s) taken. b. If an aluminum scrap shredder is subject to visible emission observation requirements, records of all Method 9 observations, including records of any visible emissions during a 30-minute daily test, with a brief explanation of the cause of the emissions, the time the emissions occurred, the time corrective action was initiated and completed, and the corrective action taken. c. For each continuous monitoring system, records required by §63.10(c). d. Records of annual inspections of emission capture/collection and closed vent systems. e. Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan including startup, shutdown, and malfunction plan, OM & M plan, and Site-specific secondary aluminum processing unit emission plan.	40 CFR Part 63 Subpart RRR [§63.1517(b)(1),(6),(14), (16)

Summary Page for Three Melting/Preheat Pots

Permitted
Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
Fug-1	Three (3) Melting/Preheat Pots	PM	$3.59(P)^{0.62}$	ADEM Admin Code r. 335-3-4-.04
Fug-1	Three (3) Melting/Preheat Pots	SO_2	N/A	N/A
Fug-1	Three (3) Melting/Preheat Pots	NO_X	N/A	N/A
Fug-1	Three (3) Melting/Preheat Pots	VOC	N/A	N/A
Fug-1	Three (3) Melting/Preheat Pots	CO	N/A	N/A
Fug-1	Three (3) Melting/Preheat Pots	Opacity	(See General Proviso 29)	ADEM Admin. Code r. 335-3-4-.01(1)

**The total combined clean charge in the Three (3) Melting/Preheat Pots shall not exceed 20,088 tons in any consecutive 12 -month period.*

Provisos for Three (3) Melting/Preheat Pots

Federally Enforceable Provisos	Regulations
Applicability	
1. These units are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, "*Major Source Operating Permits*".	ADEM Admin. Code r. 335-3-16-.03
2. This source is subject to ADEM Admin. Code R. 335-3-4-.01(1), "Control of Particulate Emissions for Process Industries– General"	40 CFR 63 Subpart RRR §63.1500(b)(4)
3. This source is subject to ADEM Admin. Code R. 335-3-4-.01(1), "Control of Particulate Emissions – Visible Emissions".	ADEM Admin. Code R. 335-3-4-.01(1)
4. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart RRR "National Emissions Standards for Hazardous Air Pollutants for Secondary Aluminum Production" for existing Group 2 furnaces located at a major source.	40 CFR Part 63 Subpart RRR [§ 63.1500(b)(1)]
5. This source is subject to the applicable requirements of 40 CFR Part 63 Subpart A "General Provisions" as listed in Appendix A Subpart RRR in 40 CFR Part 63.	40 CFR Part 63 Subpart RRR
6. These units have an enforceable limit in order to prevent them from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	ADEM Admin. Code r. 335-3-14-.04
Emission Standards	
1. The total combined clean charge melted in these units shall not exceed 20,088 tons in any consecutive 12-month period.	ADEM Admin. Code r. 335-3-14-.04
2. The owner or operator shall operate each unit using only clean charge as the feedstock and operate each furnace using no reactive flux.	40 CFR Subpart RRR §63.1506 (o)(1 & 2)
Compliance and Performance Test Methods and Procedures	
1. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with the particulate matter emission limit.	ADEM Admin. Code r. 335-3-1-.04
2. Compliance with opacity will be determined by conducting EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition).	ADEM Admin. Code r. 335-3-1-.04
Emission Monitoring	
1. The owner or operator must provide and maintain easily visible labels posted at each unit that identifies the type of affected source or emission unit and the type of charge to be used in the unit.	40 CFR 63 Subpart RRR §63.1506(b)(1 & 2)

Federally Enforceable Provisos	Regulations
2. The owner or operator shall inspect the labels for each unit at least once per calendar month to confirm that posted labels as required by the operational standard in §63.1506(b) are intact and legible.	40 CFR 63 Subpart RRR [§63.1510(c)]
3. The owner or operator must record a description of the materials charged to each furnace, including any nonreactive, non-HAP-containing/non-HAP-generating fluxing materials or agents.	40 CFR 63 Subpart RRR [§63.1510(r)(1)]
4. The owner or operator must submit a certification of compliance with the applicable operational standard for charge materials in §63.1506(o) for each 6-month reporting period. Each certification must contain the information in §63.1516(b)(2)(v).	40 CFR 63 Subpart RRR [§63.1510(r)(1)]
Recordkeeping and Reporting Requirements	
1. Records summarizing the monthly and consecutive twelve (12) month total of combined clean charge melted shall be kept in a permanent form suitable for inspection. Records shall be maintained for a period of five (5) years from the date of generation.	ADEM Admin. Code r. 335-3-16-.05
2. The owner or operator must submit initial notifications to the Department as described below: a. After the effective date (March 23, 2000), the owner or operator who intends to construct a new affected source or reconstruct an affected source subject to 40 CFR 63, Subpart RRR, or reconstruct a source such that is becomes an affected source subject to 40 CFR 63, Subpart RRR, must provide notification or the intended construction or reconstructions. The notification must include all the information required for an application for approval of construction or reconstruction as required by 40 CFR §63.5(d). i The application must be submitted as soon as practicable before the construction or reconstruction is planned to commence (but no sooner than the effective date) if the construction or reconstruction commences after the effective date of 40 CFR 63, Subpart RRR; or ii The application must be submitted as soon as practicable before startup but no later than 90 days after the effective date of this subpart if the construction or reconstruction had commenced and initial startup had not occurred before the effective date. b. As required by 40 CFR §63.9(d), the owner or operator must provide notification of any special compliance obligations for a new source.	40 CFR Part 63 Subpart RRR [§63.1515(a)]

Federally Enforceable Provisos	Regulations
c. As required by 40 CFR §63.9(e) and (f), the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance test must be provided at least 30 days before the observations are scheduled to take place.	
3. Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by §63.1501(a). Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days after conducting the initial performance test required by §63.1511(b), or within 90 days after the compliance date established by §63.1501(b) if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. If an owner or operator submits the information specified in this section at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include: a. Unit labeling as described in 40 CFR §63.1506(b), including process type or furnace classification and operating requirements.	40 CFR Part 63 Subpart RRR [§63.1515(b)(3)]
5. The owner or operator must comply with the applicable reporting requirements found in §63.1516 (a), (b), and (c). §63.1516 (a) Startup, shutdown, and malfunction plan/reports. The owner or operator must develop a written plan as described in 40 CFR §63.6(e)(3) that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard. The owner or operator shall also keep records of each event as required by 40 CFR §63.10(b) and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in 40 CFR §63.6(e)(3). In addition to the information required in 40 CFR §63.6(e)(3), the plan must include: a. Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and	40 CFR Part 63 Subpart RRR [§63.1516(a)(1-2)(b)(c)]

Federally Enforceable Provisos	Regulations
b. Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions. c. *Annual compliance certifications.* For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions: i Any period of excess emissions, as defined in §63.1516 (b)(1) of Subpart RRR, that occurred during the year were reported as required by Subpart RRR and ii All monitoring, recordkeeping, and reporting requirements were met during the year.	
5. As required by 40 CFR §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and 40 CFR 63, Subpart RRR. a. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site. b. The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and c. The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.	40 CFR Part 63 Subpart RRR [§63.1517(a)(1-3)(b)]
6. In addition to the general records required by 40 CFR §63.10(b), the owner or operator these units must maintain records of: a. Record of all charge materials and fluxing materials or agents for a group 2 furnace.	40 CFR Part 63 Subpart RRR [§63.1517(b)(12)]